

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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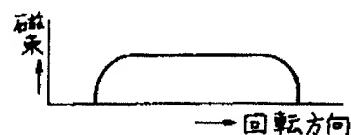
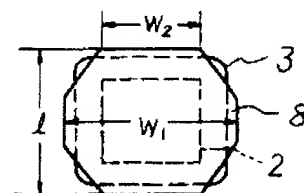
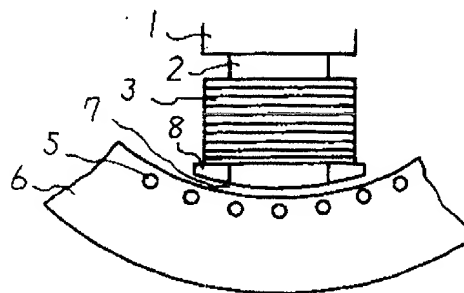
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APPLICANT : HITACHI LTD;

INVENTOR : ONO SUSUMU;

INT.CL. : H02K 1/08 H02K 19/22

TITLE : SALIENT-POLE FIELD TYPE AC GENERATOR



**ABSTRACT :** PURPOSE: To obtain an output voltage of any waveform with a smooth change in the magnetic flux by bending the circumferential surface of a magnetic pole piece to be concentric with a rotating shaft.

CONSTITUTION: The circumferential surface of a magnetic pole piece 8 is so formed as to be broad  $W_1$  rotation-wise at the center of the axial direction  $l$  and narrow  $W_2$  at both end parts thereof while making a curved surface concentric with a rotating shaft. This reduces the level of the magnetic flux on the circumferential surface of the magnetic pole piece 8 at both axial edges of the rotation-wise end rim and hence, the level of the magnetic flux decreases on both rotation-wise sides of the magnetic pole piece 8. Thus, if the degree of changes in the width of the magnetic pole piece 8 is set to provide the desired waveform of the output voltage, a good waveform of the output voltage can be obtained even with an equal length of clearance between the stator core 6 and the magnetic pole piece 8.

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